

PRELIMINARY DETERMINATION

PERMIT MODIFICATION & RENEWAL

Alabama Power Company
Post Office Box 2641
Birmingham, Alabama 35291

E. C. Gaston Plant (No. 3) Industrial Landfill
Permit No. 59-14

Alabama Power Company has submitted to the Alabama Department of Environmental Management (ADEM) an application to modify and renew the industrial landfill known as the E. C. Gaston Plant (No. 3) Landfill. The proposed modification would increase the permit area, Asbestos Cells 3, 4, and 5 would be converted to accept the same construction and demolition waste as in the permitted waste stream, and the service area would expand to Alabama Power Company, instead of limiting the service area to the E.C. Gaston Steam Plant. The waste stream for the E. C. Gaston Plant (No. 3) Landfill will remain non-hazardous construction and demolition waste such as waste building materials, masonry, wall board, roofing material, wood products, pipe, insulation and similar materials, rubbish such as paper products, cartons, cardboard, pallets, scrap metal, tires and furniture; asbestos containing material; and non-hazardous industrial wastes such as anion/cation resins and non-hazardous sandblast waste. This facility is not permitted to accept coal combustion residuals. Landfill will remain 40 cubic yards per day. All previous variances have been requested by the applicant and will be granted in the renewed permit.

The E. C. Gaston Plant (No. 3) Landfill is described as being located in the Northwest $\frac{1}{4}$ of Section 32, Township 20 South, Range 2 East in Shelby County, Alabama. The facility size would be increased from 9.65 acres to 13.52 acres and with all for disposal.

The Land Division has determined that the application meets the applicable requirements of ADEM's Administrative Code Division 13.

Technical Contact:

John Sturdivant
Solid Waste Engineering Section
Land Division



SOLID WASTE DISPOSAL FACILITY PERMIT

PERMITTEE: Alabama Power Company

FACILITY NAME: E. C. Gaston Plant (No. 3) Landfill

FACILITY LOCATION: Northwest ¼ of Section 32, Township 20 South, Range 2 East in Shelby County, Alabama. The facility consists of 13.52 acres with all for disposal.

PERMIT NUMBER: 59-14

PERMIT TYPE: Industrial Landfill

WASTE APPROVED FOR DISPOSAL: Non-hazardous construction and demolition waste such as waste building materials, masonry, wall board, roofing material, wood products, pipe, insulation and similar materials, rubbish such as paper products, cartons, cardboard, pallets, scrap metal, tires and furniture; asbestos containing material; and non-hazardous industrial wastes such as anion/cation resins and non-hazardous sandblast waste.

APPROVED WASTE VOLUME: Maximum Daily Volume of 40 cubic yards per day

APPROVED SERVICE AREA: Alabama Power Company

In accordance with and subject to the provisions of the Alabama Solid Wastes and Recyclable Materials Management Act, as amended, Code of Alabama 1975, SS 22-27-1 to 22-27-27 ("SWRMMA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to dispose of the above-described solid wastes at the above-described facility location.

ISSUANCE DATE: XXXXXX

EFFECTIVE DATE: XXXXXX

EXPIRATION DATE: XXXXXX

Alabama Department of Environmental Management

**ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
SOLID WASTE PERMIT**

Permittee: Alabama Power Company
Post Office Box 2641
Birmingham, Alabama 35291-0830

Landfill Name: E. C. Gaston Steam Plant (No. 3) Landfill

Landfill Location: 31972 Alabama Highway 25
Wilsonville, Alabama
Northwest ¼ of Section 32, Township 20 South, Range 2 East
Shelby County

Permit Number: 59-14

Landfill Type: Industrial

Pursuant to the Solid Wastes & Recyclable Materials Management Act, Code of Alabama 1975, §§22-27-1, et seq., as amended (the “Act”), and attendant regulations promulgated thereunder by the Alabama Department of Environmental Management (ADEM), this permit is issued Alabama Power Company (hereinafter called the Permittee), to operate a solid waste disposal facility, known as the E. C. Gaston Steam Plant (No. 3) Landfill.

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions set forth herein (including those in any attachments), and the applicable regulations contained in 335-13-1 through 335-13-16 of the ADEM Administrative Code (hereinafter referred to as the "ADEM Admin. Code" or as “335-13”). Rules cited are set forth in this document for the purpose of Permittee reference. Any rule that is cited incorrectly in this document does not constitute grounds for noncompliance on the part of the Permittee. Applicable ADEM Admin. Codes are those that are in effect on the date of issuance of this permit or any revisions approved after permit issuance.

This permit is based on the information submitted to ADEM on April 30 2020, for permit renewal and is known as the Permit Application (hereby incorporated by reference and hereinafter referred to as the Application). Any inaccuracies found in this information could lead to the termination or modification of this permit and potential enforcement action. The Permittee must inform ADEM of any deviation from or changes in the information in the Application that would affect the Permittee's ability to comply with the applicable ADEM Admin. Code or permit conditions.

This permit is effective as of **XXXXXX**, and shall remain in effect until **XXXXXX**, unless suspended or revoked.

Alabama Department of Environmental Management

Date Signed

SECTION I. STANDARD CONDITIONS.

- A. Effect of Permit. The Permittee is allowed to dispose of nonhazardous solid waste in accordance with the conditions of this permit and 335-13. Issuance of this permit does not convey property rights of any sort or any exclusive privilege, nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of state or local laws or regulations. Except for actions brought under the Act, compliance with the conditions of this permit shall be deemed to be compliance with applicable requirements in effect as of the date of issuance of this permit and any future revisions.
- B. Permit Actions. This permit may be suspended, revoked or modified for cause. The filing of a request for a permit modification or the notification of planned changes or anticipated noncompliance on the part of the Permittee, and the suspension or revocation does not stay the applicability or enforceability of any permit condition.
- C. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- D. Definitions. For the purpose of this permit, terms used herein shall have the same meaning as those in 335-13, unless this permit specifically provides otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term.
1. "EPA" for purposes of this permit means the United States Environmental Protection Agency.
 2. "Permit Application" for the purposes of this permit, means all permit application forms, design plans, operational plans, closure plans, technical data, reports, specifications, plats, geological and hydrological reports, and other materials which are submitted to ADEM in pursuit of a solid waste disposal permit.
- E. Duties and Requirements.
1. Duty to Comply. The Permittee must comply with all conditions of this permit except to the extent and for the duration such noncompliance is authorized by a variance granted by ADEM. Any permit noncompliance, other than noncompliance authorized by a variance, constitutes a violation of the Act and is grounds for enforcement action, permit suspension, revocation, modification, and/or denial of a permit renewal application.
 2. Duty to Reapply. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must apply for and obtain a new permit. The renewal application must be submitted to ADEM at least 180 days before this permit expires.
 3. Permit Expiration. This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application as required by Section I.,E.,2., and, through no fault of the Permittee, ADEM has not made a final decision regarding the renewal application.
 4. Need to Halt or Reduce Activity Not A Defense. It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.
 5. Duty to Mitigate. In the event of noncompliance with this permit, the Permittee shall take all reasonable steps to minimize releases to the environment, and shall carry out such measures as are reasonable to prevent significant adverse impacts on human health or the environment.

6. Proper Operation and Maintenance. The Permittee shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used by the Permittee to achieve compliance with the conditions of this permit.
7. Duty to Provide Information. If requested, the Permittee shall furnish to ADEM, within a reasonable time, any information that ADEM may reasonably need to determine whether cause exists for denying, suspending, revoking, or modifying this permit, or to determine compliance with this permit. If requested, the Permittee shall also furnish ADEM with copies of records kept as a requirement of this permit.
8. Inspection and Entry. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the employees of ADEM or their authorized representative to:
 - a. Enter at reasonable times the Permittee's premises where the regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
 - d. Sample or monitor, at reasonable times, any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by the Act.
9. Monitoring, Corrective Actions, and Records.
 - a. Samples and measurements taken for the purpose of monitoring or corrective action shall be representative of the monitored activity. The methods used to obtain representative samples to be analyzed must be the appropriate method from 335-13-4 or the methods as specified in the Application attached hereto and incorporated by reference. Laboratory methods must be those specified in Standard Methods for the Examination of Water and Wastewater (American Public Health Association, latest edition), Methods for Chemical Analysis of Water and Wastes (EPA-600/4-79-020), Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA Publication SW-846, latest edition), other appropriate EPA methods, or as specified in the Application. All field tests must be conducted using approved EPA test kits and procedures.
 - b. The Permittee shall retain records, at the location specified in Section I.,I., of all monitoring, or corrective action information, including all calibration and maintenance records, copies of all reports and records required by this permit, and records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report or record or for periods elsewhere specified in this permit. These periods may be extended by the request of ADEM at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
 - c. Records of monitoring and corrective action information shall include.
 - i. The exact place, date, and time of sampling or measurement.
 - ii. The individual(s) and company who performed the sampling or measurements.
 - iii. The date(s) analyses were performed.
 - iv. The individual(s) and company who performed the analyses.
 - v. The analytical techniques or methods used.

- vi. The results of such analyses.
 - d. The Permittee shall submit all monitoring and corrective action results at the interval specified elsewhere in this permit.
10. Reporting Planned Changes. The Permittee shall notify ADEM, in the form of a request for permit modification, at least 90 days prior to any change in the permitted service area, increase in the waste received, or change in the design or operating procedure as described in this permit, including any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
 11. Transfer of Permit. This permit may be transferred to a new owner or operator. All requests for transfer of permits shall be in writing and shall be submitted on forms provided by ADEM. Before transferring ownership or operation of the facility during its operating life, the Permittee shall notify the new owner or operator in writing of the requirements of this permit.
 12. Certification of Construction. The Permittee may not commence disposal of waste in any new cell or phase until the Permittee has submitted to ADEM, by certified mail or hand delivery, a letter signed by both the Permittee and a professional engineer stating that the facility has been constructed in compliance with the permit. ADEM must inspect the constructed cells or phases before the owner or operator can commence waste disposal unless the Permittee is notified that ADEM will waive the inspection.
 13. Compliance Schedules. Reports of compliance or noncompliance with or any progress reports on interim and final requirements contained in any compliance schedule required and approved by ADEM shall be submitted no later than 14 days following each schedule date.
 14. Other Noncompliance. The Permittee shall report all instances of noncompliance with the permit at the time monitoring reports are submitted.
 15. Other Information. If the Permittee becomes aware that information required by the Application was not submitted or was incorrect in the Application or in any report to ADEM, the Permittee shall promptly submit such facts or information. In addition, upon request, the Permittee shall furnish to ADEM, within a reasonable time, information related to compliance with the permit.
- F. Design and Operation of Facility. The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or nonsudden release of contaminants (including leachate and explosive gases) to air, soil, groundwater, or surface water, which could threaten human health or the environment.
- G. Inspection Requirements.
1. The Permittee shall comply with all requirements of 335-13.
 2. The Permittee shall conduct random inspections of incoming loads.
 3. Records of all inspections shall be included in the operating record.
- H. Recordkeeping and Reporting.
1. The Permittee shall maintain a written operating record at the location specified in Section I.,I. The operating record shall include:
 - a. Documentation of inspection and maintenance activities.
 - b. Daily Volume reports.

- c. Personnel training documents and records.
 - d. Solid/Hazardous Waste Determination Forms for Industrial Wastes, and associated ADEM disposal approval correspondence for industrial waste and special waste.
 - e. Groundwater monitoring records.
 - f. Explosive gas monitoring records.
 - g. Surface water and leachate monitoring records.
 - h. Copies of this Permit and the Application.
 - i. Copies of all variances granted by ADEM, including copies of all approvals of special operating conditions.
2. Quarterly Volume Report. Beginning with the effective date of this permit, the Permittee shall submit, within thirty (30) days after the end of each calendar quarter, a report summarizing the daily waste receipts for the previous (just ended) quarter. Copies of the quarterly reports shall be maintained in the operating record.
3. Monitoring and Corrective Action Reports. The Permittee shall submit reports on all monitoring and corrective activities conducted pursuant to the requirements of this permit, including, but not limited to, groundwater, surface water, explosive gas and leachate monitoring. The groundwater monitoring shall be conducted in March and September of each year, or as directed by ADEM, and the reports shall be submitted at least semi-annually, or as directed by ADEM. The reports should contain all monitoring results and conclusions from samples and measurements conducted during the sampling period. Explosive gas monitoring must be submitted on a quarterly basis, and the reports should be submitted to ADEM and placed in the operating record within 30 days of the monitoring event. Copies of the groundwater and explosive gas monitoring reports shall be maintained in the operating record.
4. Availability, Retention, and Disposition of Records.
- a. All records, including plans, required under this permit or 335-13 must be furnished upon request, and made available at reasonable times for inspection by any officer, employee, or representative of ADEM.
 - b. All records, including plans, required under this permit or 335-13 shall be retained by the Permittee for a period of at least three years. The retention period for all records is extended automatically during the course of any unresolved enforcement action regarding the facility, or as requested by ADEM.
 - c. A copy of records of waste disposal locations and quantities must be submitted to ADEM and local land authority upon closure of the facility.
- I. Documents to be Maintained by the Permittee. The Permittee shall maintain, at the Alabama Power Company E. C. Gaston Steam Plant office located in Wilsonville, Alabama, the following documents and amendments, revisions and modifications to these documents until an engineer certifies closure of the permitted landfill.
- 1. Operating record.
 - 2. Closure Plan.

- J. Mailing Location. All reports, notifications, or other submissions which are required by this permit should be sent via signed mail (i.e. certified mail, express mail delivery service, etc.) or hand delivered to:
1. Mailing Address.
Chief, Solid Waste Branch
Alabama Department of Environmental Management
P.O. Box 301463
Montgomery, AL 36130-1463
 2. Physical Address.
Chief, Solid Waste Branch
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, Alabama 36110-2400
- K. Signatory Requirement. All applications, reports or information required by this permit, or otherwise submitted to ADEM, shall be signed and certified by the owner as follows:
1. If an individual, by the applicant.
 2. If a city, county, or other municipality or governmental entity, by the ranking elected official, or by a duly authorized representative of that person.
 3. If a corporation, organization, or other legal entity, by a principal executive officer, of at least the level of Vice President, or by a duly authorized representative of that person.
- L. Confidential Information. The Permittee may claim information submitted as confidential if the information is protected under Code of Alabama 1975 §§22-39-18, as amended.
- M. State Laws and Regulations. Nothing in this permit shall be construed to preclude the initiation of any legal action or to relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

SECTION II. GENERAL OPERATING CONDITIONS.

- A. Operation of Facility. The Permittee shall operate and maintain the disposal facility consistent with the Application, this permit, and 335-13.
- B. Open Burning. The Permittee shall not allow open burning without prior written approval from ADEM and other appropriate agencies. A burn request should be submitted in writing to ADEM outlining why that burn request should be granted. This request should include, but not be limited to, specifically what areas will be utilized, types of waste to be burned, the projected starting and completion dates for the project, and the projected days and hours of operation. The approval, if granted, shall be included in the operating record.
- C. Prevention of Unauthorized Disposal. The Permittee shall follow the approved procedures for the detecting and preventing the disposal of free liquids, regulated hazardous waste, PCB's, and medical waste at the facility.
- D. Unauthorized Discharge. The Permittee shall operate the disposal facility in such a manner that there will be no water pollution or unauthorized discharge. Any discharge from the disposal facility or practice thereof may require a National Pollutant Discharge Elimination System permit under the Alabama Water Pollution Control Act.
- E. Industrial Waste Disposal. The Permittee shall dispose of industrial waste as required by 335-13-4-.21(1)(c), and as specified in the Application.

- F. Boundary Markers. The Permittee shall ensure that the facility is identified with a sufficient number of permanent boundary markers that are at least visible from one marker to the next.

SECTION III. SPECIFIC REQUIREMENTS FOR INDUSTRIAL WASTE LANDFILLS.

- A. Waste Identification and Management.
1. Subject to the terms of this permit, the Permittee may accept for disposal the nonhazardous solid wastes listed in III.B. Disposal of any other wastes is prohibited, except waste granted a temporary or one time waiver by the Director.
 2. The total permitted area for the E. C. Gaston Steam Plant (No. 3) Landfill is approximately 13.52 acres, with all for disposal.
 3. The maximum average daily volume of waste disposed at the facility, as contained in the permit application, shall not exceed 40 cubic yards/day. Should the average daily volume exceed this value by 20% or 100 tons/day, whichever is less, for two (2) consecutive quarters the permittee shall be required to modify the permit in accordance with 335-13-5-.06(2)(a)5. The average daily volume shall be computed as specified by 335-13-5-.06(2)(a)5.(i).
- B. Waste Streams. The Permittee may accept for disposal non-hazardous construction and demolition waste such as waste building materials, masonry, wall board, roofing material, wood products, pipe, insulation and similar materials, rubbish such as paper products, cartons, cardboard, pallets, scrap metal, tires and furniture; asbestos containing material; and non-hazardous industrial wastes such as anion/cation resins and non-hazardous sandblast waste.
- C. Service Area. The service area for this landfill, as contained in the permit application, is Alabama Power Company.
- D. Waste Placement, Compaction, and Cover. All waste shall be confined to an area as small as possible and placed onto an appropriate slope not to exceed 4 to 1 (25%). All waste shall be spread in layers two feet or less in thickness and thoroughly compacted weekly with adequate landfill equipment prior to placing additional layers of waste or placing the monthly cover. A minimum of six inches of compacted earth shall be added at the conclusion of each month of operation, which is defined as the last Friday of each month (See Section VIII., 1.).
- E. Liner Requirements. At this time, the Permittee shall not be required to install a liner system. The bottom of the construction and demolition waste shall be a minimum of five (5) feet above the highest measured groundwater level.
- F. Security. The Permittee shall provide artificial and/or natural barriers, which prevent entry of unauthorized vehicular traffic to the facility.
- G. All Weather Access Roads. The Permittee shall provide an all-weather access road to the dumping face that is wide enough to allow passage of collection vehicles.
- H. Adverse Weather Disposal. The Permittee shall provide for disposal activities in adverse weather conditions.
- I. Personnel. The Permittee shall maintain adequate personnel to ensure continued and smooth operation of the facility.
- J. Environmental Monitoring and Treatment Structures. The Permittee shall provide protection and proper maintenance of environmental monitoring and treatment structures.
- K. Vector Control. The Permittee shall provide for vector control as required by ADEM Admin. Code 335-13.

- L. Bulk or Noncontainerized Liquid Waste. The Permittee shall not dispose of bulk or noncontainerized liquid waste, or containers capable of holding liquids, unless the conditions of 335-13-4-.23(1)(j) are met.
- M. Empty Containers. Empty containers larger than 10 gallons in size must be rendered unsuitable for holding liquids prior to disposal in the landfill unless otherwise approved by ADEM.
- N. Other Requirements. ADEM may enhance or reduce any requirements for operating and maintaining the landfill as deemed necessary by the Land Division.
- O. Other Permits. The Permittee shall operate the landfill according to this and any other applicable permits.
- P. Scavenging and Salvaging Operations. The Permittee shall prevent scavenging and salvaging operations, except as part of a controlled recycling effort. Any recycling operation must be in accordance with plans submitted and approved by ADEM.
- Q. Signs. If the landfill is available to the public or commercial haulers, the Permittee shall provide a sign outlining instructions for use of the site. The sign shall be posted and have the information required by 335-13-4-.23(1)(f).
- R. Litter Control. The Permittee shall control litter.
- S. Fire Control. The Permittee shall provide fire control measures.

SECTION IV. GROUNDWATER MONITORING REQUIREMENTS.

At this time, groundwater monitoring is not being required. If at any time the Department determines that a groundwater monitoring system is deemed necessary for the protection of human health and the environment, the Permittee must, within 90 days, submit an application for permit modification for the installation of a groundwater monitoring system that meets the proper regulatory requirements of the Alabama Department of Environmental Management

SECTION V. GAS MONITORING REQUIREMENTS.

At this time, gas monitoring is not being required (See Section VIII., 2.). If at any time the Department determines that an explosive gas monitoring system is deemed necessary for the protection of human health and the environment, the Permittee must, within 90 days, submit an application for permit modification for the installation of an explosive gas monitoring system that meets the proper regulatory requirements of the Alabama Department of Environmental Management.

SECTION VI. SURFACE WATER MANAGEMENT REQUIREMENTS.

The permittee shall construct and maintain run-on and run-off control structures. Any discharges from drainage control structures shall be permitted through a discharge permit issued by the ADEM.

SECTION VII. CLOSURE AND POST-CLOSURE REQUIREMENTS.

The Permittee shall close the landfill and perform post-closure care of the landfill in accordance with 335-13.

- A. Final Cover. The Permittee shall grade final soil cover such that surface water does not pond over the permitted area as specified in the Application. The final cover system shall be constructed as specified in the application.

- B. Vegetative Cover. The Permittee shall establish a vegetative or other appropriate cover within 90 days after completion of final grading requirements in the Application. Preparation of a vegetative cover shall include, but not be limited to, the placement of seed, fertilizer, mulch, and water.
- C. Notice of Intent. The Permittee shall place in the operating record and notify ADEM of their intent to close the landfill prior to beginning closure.
- D. Completion of Closure Activities. The Permittee must complete closure activities of each landfill unit in accordance with the Closure Plan within 180 days of the last known receipt of waste.
- E. Certification of Closure. Following closure of each unit, the Permittee must submit to ADEM a certification, signed by an engineer, verifying the closure has been completed according to the Closure Plan.
- F. Post-Closure Care Period. Post-closure care activities shall be conducted after closure of each unit throughout the life of this permit and continuing for a period of thirty (30) years following closure of the facility. ADEM may shorten or extend the post-closure care period applicable to the solid waste disposal facility. The Permittee shall reapply in order to fulfill the post-closure care requirements of this permit.
- G. Post-Closure Maintenance. The Permittee shall provide post closure maintenance of the facility to include regularly scheduled inspections. This shall include maintenance of the cover, vegetation, monitoring devices and pollution control equipment and correction of other deficiencies that may be observed by ADEM. Monitoring requirements shall continue throughout the post closure period as determined by ADEM unless all waste is removed and no unpermitted discharge to waters of the State have occurred.
- H. Post-Closure Use of Property. The Permittee shall ensure that post closure use of the property never be allowed to disturb the integrity of the final cover, liner, or any other component of the containment system. This shall preclude the growing of deep-rooted vegetation on the closed area.
- I. Certification of Post-Closure. Following post-closure of each unit, the Permittee must submit to ADEM a certification, signed by an engineer, verifying the post-closure has been completed according to the Post-Closure Plan.
- J. Notice in Deed to Property. The Permittee shall record a notation onto the land deed containing the property utilized for disposal within 90 days after permit expiration, revocation or when closure requirements are achieved as determined by ADEM as stated in the Application. This notation shall state that the land has been used as a solid waste disposal facility, the name of the Permittee, type of disposal activity, location of the disposal facility and beginning and closure dates of the disposal activity.
- K. Recording Instrument. The Permittee shall submit a certified copy of the recording instrument to ADEM within 120 days after permit expiration, revocation, or as directed by ADEM as described in the Application.
- L. Removal of Waste. If the Permittee, or any other person(s), wishes to remove waste, waste residues, or any liner or contaminated soils, the owner must request and receive prior approval from ADEM.

SECTION VIII. VARIANCES AND SPECIAL CONDITIONS.

1. The Permittee is granted a variance from Rule 335-13-4-.23(1)(a)1. requiring weekly cover. The Permittee shall be required to cover all exposed waste by the last Friday of each month (See Section III., D.).
2. The Permittee is granted a variance from Rule 335-13-4-.16 requiring explosive gas monitoring (See Section V.).
3. The Permittee is granted a variance from Rule 335-13-4-.12(2)(f) requiring a 100 foot buffer zone.

Any variance granted by ADEM may be terminated by ADEM whenever ADEM finds, after notice and opportunity for hearing, that the petitioner is in violation of any requirement, condition, schedule, limitation or any other provision of the variance, or that operation under the variance does not meet the minimum requirements established by state and federal laws and regulations or is unreasonably threatening the public health.

Permit Renewal & Modification Application



600 North 18th Street / 12N-0831
Birmingham, Alabama 35203
(205) 257-4150 tel
(205) 257-4349 fax
(205) 504-3000 cell
egrinder@southernco.com

April 27, 2020

Mr. Scott Story, Chief
Solid Waste Branch
Land Division
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, AL 36130-1463

**RE: E. C. Gaston Steam Plant Landfill #3 – Landfill Permit Renewal
(Permit 59-14)
Alabama Power Company
E. C. Gaston Steam Plant
31972 Highway 25
Wilsonville, Alabama 36512**

Dear Mr. Story:

Enclosed is the industrial landfill permit renewal application for the Alabama Power Company (APC) E. C. Gaston Steam Plant Landfill #3, Permit #59-14. Included in the package are three (3) copies of the completed permit application with required attachments and ADEM receipt indicating electronic payment of the \$8,150.00 industrial landfill permit renewal fee.

APC would like to request that variances granted in the current permit, consisting of a variance from requiring weekly cover, explosive gas monitoring, and 100 foot buffer zone, be granted during the landfill permit renewal for Permit #59-14. APC further requests that modifications submitted with the permit modification application in October 2019 be incorporated into the permit during renewal.

If you have any questions, please contact Ms. Elizabeth Grinder at (205) 257-4150.

Sincerely,

A handwritten signature in cursive script that reads "Mike Godfrey".

Mike Godfrey, Manager
Environmental Compliance

Attachments

ATTACHMENT 1
SOLID WASTE APPLICATION

SOLID WASTE APPLICATION

PERMIT APPLICATION
SOLID WASTE DISPOSAL FACILITY
ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(Submit in Triplicate)

1. Facility type: Municipal Solid Waste Landfill (MSWLF)
 Industrial Landfill (ILF)
 CCR Landfill (CCRLF)
 CCR Surface Impoundment (CCRSI)
 Other (explain) _____

2. Facility Name E. C. Gaston Steam Plant Landfill #3, Permit # 59-14

3. Applicant:

Name: Mr. Mike Godfrey

Address:	Mailing Address	Physical Address
	<u>Alabama Power Company</u>	<u>E. C. Gaston Steam Plant</u>
	<u>Post Office Box 2641</u>	<u>31972 Highway 25</u>
	<u>Birmingham, Alabama 35291</u>	<u>Wilsonville, Alabama 36512</u>

Telephone: (205) 257-6131

4. Location: (include county highway map or USGS map)

Township	<u>20-South</u>	Range	<u>02-East</u>	<u>32.24960</u>
Section	<u>32</u>	County	<u>Shelby</u>	<u>-86.46244</u>

5. Land Owner:

Name: Alabama Power Company

Address: 600 North 18th Street, 12N-0831
Birmingham, Alabama 35205

Telephone: (205) 257-4150

(Attach copy of agreement from landowner if applicable.) Not Applicable

ATTACHMENT 2

E.C. GASTON STEAM PLANT LANDFILL OPERATIONAL PLAN

E. C. GASTON STEAM PLANT
LANDFILL OPERATIONAL PLAN
LANDFILL #3
ADEM PERMIT # 59-14

E. C. GASTON STEAM PLANT LANDFILL OPERATIONAL PROCEDURE

Introduction

Plant E. C. Gaston is one of Alabama Power Company's (APC), a Southern Company subsidiary, three coal-fired electric generating plants. It has been in service since 1960 with 5 units and a total capacity of 1880 megawatts.

Landfill Siting

- Floodplain

The landfill is not located in a flood plain.

- Endangered Species

No known endangered or threatened species of plants, fish, or wildlife will be affected by the landfill.

- Storm Water

Normal water drainage will not cause washout of any solid waste. Water will naturally flow toward Yellow Leaf Creek, following the general slope of the land. Any stormwater run-off will be addressed in the NPDES permit for the plant. Engineered controls are in place to minimize storm water run-on to the landfill.

- Proximity to Waters

The operation landfill will not cause a discharge of dredged material or fill material into the waters of the State. The landfill is not located in immediate proximity to any bodies of water. The closest is Yellow Leaf Creek, which is located approximately 550 feet from the landfill.

- Cell Elevations

The bottom elevation of the solid waste disposed of in each cell will be a minimum of 10 feet above the seasonal high groundwater level or bedrock.

Airports

There is no airport runway within 10,000 feet of the landfill.

Geologic Conditions

Exploration conducted by Alabama Power Company's Power Generation Services Civil Section in past years has identified limestone formations and sink holes in some areas near the plant site. On February 2, 1992, Power Generation Services Civil Section began an exploratory

investigation as part of the permitting requirements for the solid waste landfill located at E. C. Gaston Steam Plant. The investigation consisted of drilling four (4) soil borings to determine the depth to groundwater, soil conditions, and to conduct an open-end pipe test to define the permeability of the soil. The investigation was completed on February 4, 1992. Listed below are the findings of this investigation.

Site Geology

The site area is located in a portion of the Valley and Ridge formations known as the Coosa deformed belt. The Coosa belt is a long sinuous, structurally complex zone comprised of repeated sequences of Cambrian and Ordovician carbonate and Mississippian clastic rocks. The site area is located southwest of the Harpersville offset, which is one of three (3) lateral offsets in the Coosa belt. A steep elongated anticline in the Fort Payne Chert extends south from the offset into a low in which the Newala Limestone is exposed at the core. The eastern side of the dome is cut by small scale northwest striking faults. E. C. Gaston Steam Plant is located to the south of this dome.

The landfill is located in an area that is underlain by a faulted sequence of Newala Limestone and Fort Payne chert. Thrust faulting has caused these units to be repeated several times in the vicinity of this site. Both of these formations are comprised of carbonate rocks which make them susceptible to solutioning. No surface expression from solutioning (sinkholes) was observed in the site area during the field investigation.

Exploratory Drilling

The exploratory drilling indicates that the site is covered with a sandy fly ash fill which varies in thickness from twelve (12) to twenty (20) feet. A stiff, slightly sandy alluvial clay underlies the fly ash. The alluvium is underlain by a residual plastic clay derived from the Newala and Fort Payne formations. The depths that each of the above units were encountered are shown on the boring logs. (See attachment 2)

Groundwater was encountered in each of the exploratory borings drilled at the site. Groundwater levels ranged from elevation 406 in AH-5, which is located at the western end of the landfill, to

elevation 402 in AH-7 at the eastern edge of the site. These borings indicate that the gradient is east-northeast toward Yellow Leaf Creek. Groundwater levels shown on the logs for boring numbers AH-4 and AH-6 were not considered stabilized and therefore not used in the analysis.

An open-end pipe test was conducted in the alluvial sand clay to determine the permeability of the upper soil material at the site. The test was monitored for a period of five (5) hours. The resulting permeability was $1.1 \times 10^{-4} \text{ cm/sec}$. It appears that all of the landfill activities will either be within the ash or the alluvial sandy clay.

Conclusions

Based on the characteristics and the material to be landfilled, contamination of groundwater should not occur. There is no archaeological or historically sensitive area within the landfill boundaries. Written certification is provided from the State Historic Preservation Office.

General Site Geology

An exploratory investigation was performed at the site in February, 1992 to determine the depth to groundwater, soil permeability and soil type. Four (4) auger borings were drilled during this investigation. Soils at the site primarily consist of residual clays derived from the weathering of the Newala Limestone and Fort Payne chert formation. Most of the residual soils are covered by a thin veneer of alluvial silty clays with scattered gravel. Alluvial and residual soils at the site are covered by a thick layer of flyash in most areas. Permeability tests conducted during the investigation resulted in a value of 1.1×10^{-4} cm^2/sec . Groundwater was encountered in borings at elevations ranging from 402 to 406 feet above mean sea level. The groundwater gradient is to the east-northeast toward Yellow Leaf Creek.

13-4-.15 Cover

Soil will be used for the intermediate cover. As each cell is closed, 2' of top soil will be placed on the cell and suitable vegetative growth will be established. Seeding, utilizing mixes formulated to germinate at the time of planting or planting sod are both acceptable for establishing vegetative cover.

13-4-.16 Explosive Gases

ADEM granted APC a variance of Section 13-4-.16 relating to methane gas testing. This variance was based on the distance of the landfill from adjacent property owners and enclosed structures and the types of wastes being disposed of in the landfill. Attached is the letter dated October 29, 1990 (See Attachment 1).

3-4.17 Drainage

The site is the highest elevation so that there will be no off-site surface drainage passing over the disposal site. This site created a storm water discharge point. This point was added to the E. C. Gaston's NPDES Permit.

13-4.19 Access

The landfill is located on APC property and is accessible from a single entrance, located on the eastern side of the landfill. The landfill entrance contains a gate and signs are posted entering APC property stating that all visitors must register with security at the main entrance. Security is present on-site 24 hours and monitors the plant property.

13-4.20 Closure

Closure will be such that surface water does not pond over the disposal facility. A two foot soil cover will be placed on the landfill as each cell is completed. The slope will be graded to less than 25 % but greater than or equal to 5 %. Slopes longer than 25 feet will be terraced to prevent erosion. Each cell will be graded within 60 days after landfilling. Vegetative growth will be established within 30 days after the completion of final grading. The vegetative growth will be in accordance to Alabama Department of Transportation specifications (See table 1). The vegetative growth will be maintained as necessary to ensure adequate growth. Post closure maintenance will include annual inspections and any problems will be corrected in a timely manner. All eroded areas will be filled and re-seeded. Cover will be maintained as solid and will not allow ponding. Post-closure use of the property will never be allowed to disturb the integrity of the final cover. Current plans do not include any post-closure use of the property. Within 90 days after closure or permit expiration, APC will record a notation onto the land deed stating the property was utilized as a solid waste disposal facility. Signs will be placed at all boundaries indicating that this area was used as a landfill and that no activity is to be conducted within the landfill boundaries. Vector control shall be conducted to prevent any problems.

13-4.21 General Operational Standards

Open Burning

No unpermitted open burning is conducted at any APC facility. No open burning will be conducted at the landfill site.

Acceptable Wastes

Typical wastes that will be accepted at the landfill include construction and demolition waste, rubbish, asbestos, landscaping, and approved industrial wastes.

Prohibited Wastes

No prohibited wastes are placed in the landfill. Routine inspections will be conducted to ensure that no prohibited waste is placed in the landfill.

- Hazardous or PCB Waste

E. C. Gaston Steam Plant has a separate program in place for the management of hazardous waste and PCB waste.

- Medical Waste

No regulated medical waste is generated routinely on site. Waste from medical attention/first aid events is handled by the emergency responders or is transferred to WestMed.

- Liquid Waste

No liquid or potentially liquid waste streams are placed in the landfill.

Service Area

Only waste that is generated by Alabama Power Company will be disposed of in the landfill.

No out-of-state waste is accepted.

Landfill Markers

The landfill boundaries will be identified with a sufficient number of permanent markers which are visible from one marker to the next.

13-4.23 Specific Requirements for Landfills

- Intermediate Cover

A minimum of six inches of compacted earth will be placed on the active part of the active cell as intermediate cover. Because the frequency and volume of waste placed in the landfill varies

greatly throughout the year, a variance for weekly cover has been approved. The active face of the landfill is covered at least monthly with a minimum of six inches of soil.

- **Cell Closure**

Final grading of each cell will be conducted within 60 days after landfilling is complete for that cell. Final earth cover shall be a minimum of two feet of compacted soil. The slope will be graded to less than 25 % but greater than or equal to 5 %. Slopes longer than 25 feet will be terraced to prevent erosion. Each cell will be graded within 60 days after landfilling. Vegetative growth will be established within 30 days after the completion of final grading for each completed cell. The vegetative growth will be in accordance with the Alabama Department of Transportation specifications (See Table 1). The vegetative cover will be maintained as necessary to ensure adequate growth. The waste will be dumped at the top of each cell in a confined space and will be compacted in layers no more than two feet thick. As the operator inspects the active cell, these layers will be compacted by the landfill equipment prior to placing additional waste on the active face of the cell. As the frequency and volume of waste placed in the landfill varies greatly, the active face of the landfill will be covered at least monthly.

Fill Methodology

Once all the available space has been utilized by digging cells using the trench method, waste will then be disposed of by placing the material on the top and utilizing the area fill method. The waste will be disposed of in a 13.52 acre portion of the landfill utilizing twelve (12) cells.

Scavenging

No material is allowed to be removed once placed in the landfill. Litter control will be conducted by the landfill operator.

Fire Protection and Security

Wilsonville Fire Department is on call and would be available should the need arise. The site is located on APC property that has 24 hour surveillance.

Inclement Weather Operation

As a private industrial landfill, disposal can be postponed if weather does not permit the operation of the landfill. The roads around the landfill are not heavily used so they should remain passable at all times.

13-4-.26 Special Wastes

Asbestos

Asbestos waste generated at the plant is resulting from an on-going asbestos abatement program. The asbestos is placed wet in double 6 mil polyethylene bags that are labeled as "asbestos waste". The bagged material is taken to a designated area that is labeled as "Asbestos Landfill". At the end of each working day the asbestos is placed in the landfill and is covered with a minimum of 12 inches of earth. Special precautions are given to all personnel handling the bagged asbestos material and to the landfill operator to ensure that the bags are not ruptured prior to applying the required daily earth cover. The asbestos waste is disposed of in Asbestos Waste Cells 1 and 2.

Sandblast Waste

This waste results from the surface preparation of equipment or structures prior to painting. Each lot of this waste is analyzed for TCLP metals to ensure it is non-hazardous prior to disposal.

Spent Anion/Cation Resin

Spent anion/cation resins are used in the on-site water treatment plant. The resins are disposed of when they fail to meet operational specifications. This waste stream is a low volume/frequency waste.

Attachment 1

ADEM

**ALABAMA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

October 29, 1990

Guy Hunt
Governor

Leigh Pegues, Director

1751 Cong. W. L.
Dickinson Drive
Montgomery, AL
36130
205 / 271-7700

Mr. John D. Grogan, Manager
Environmental Compliance
Alabama Power Company
P. O. Box 2641
Birmingham, AL 35291

Field Offices:

Unit 806, Building 8
225 Oxmoor Circle
Birmingham, AL
35209
205 / 942-6168

P.O. Box 953
Decatur, AL
35602
205 / 353-1713

2204 Perimeter Road
Mobile, AL
36615
205 / 479-2336

Dear Mr. Grogan:

This is in response to your request of October 16, 1990, to Mr. Honeycutt of the Solid Waste Branch for a variance of Section 13-4-16 of Division 13 Regulations relating to methane gas testing at the steam plant landfills operated by Alabama Power.

The purpose of testing methane gas is to minimize the fire hazard should gas accumulate as the result of decaying waste. Your request for a variance is based on the distance of the landfill from adjacent property owners and enclosed structures. We concur that due to the distance involved and the type waste disposed, methane gas should not be a problem at the landfill. We are, therefore, granting your variance request.

If you have any questions, please contact the Solid Waste Branch at (205) 271-7726.

Sincerely,

Leigh Pegues
Leigh Pegues
Director

LP/JH/bbg#3472

Attachment 2



DRILLING LOG

Note No. AH-4
Page 1 of 2

SITE E. C. Gaston Steam Plant SURF. ELEV. 432.5 TOTAL DEPTH 35.0

LOCATION Western portion of landfill COORDINATES N 1000868.07 E 307008.67

ANGLE Vertical BEARING NA CONTRACTOR APCo DRILL NO. _____

OVERBURDEN DEPTH 35.0 NO. PENT. TESTS 5 NO. U.D. SAMPLES 0

CASING SIZE NA LENGTH 0.0 CORE SIZE NA TOTAL S REC. NA

WATER TABLE DEPTH 25.3 ELEV. 407.2 TIME AFTER COMP 2 hours DATE TAKEN 02/03/92

TYPE GROUT _____ QUANTITY _____ MIX _____ DRILLING DATE START 02/03/92

DRILLER S. McDaniel RECORDER D.M. Frings APPROVED DMF DRILLING DATE COMP. 02/03/92

Graphic Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Penetration Test			Sample No.	Fluid Chg. %	Rec %	RCD
				From To	Blows	N				
0.0	0	432.5	Surface of ground.							
	1		Very dark gray (N-3), sandy fly ash fill.							
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
12.0	12	420.5	Bottom of fill.							
	13		Strong brown (7.5YR5/6), stiff, gravelly clay.							
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									

15.0 (417.5) sample.

Gravel consist of 1/4 to 3/8 inch diameter chert and quartz.

20.0 (412.5) sample.

Site E. C. Gaston Steam Plant

SURF. ELEV. 432.5

TOTAL DEPTH 35.0

Graphic Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Pen. Test			Sample No.	Fluid Ctg. %	Res. %	RCO
				From To	Blows	N				
	25	407.5	Top of residuum	25.0 (407.5) sample.						
	26		Red (2.5YR4/8), stiff, slightly silty clay.							
	27									
	28									
	29									
	30	402.5		30.0 (402.5) sample.						
	31		Red (2.5YR5/8) and yellow (10YR7/8) mottled, slightly sandy, plastic clay.							
	32									
	33									
	34									
	35	397.5	35.0 (397.5) sample.							
	36		Bottom of hole.							
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									

SITE E. C. Gaston Steam Plant SURF. ELEV. 433.1 TOTAL DEPTH 30.0

LOCATION Western portion of landfill COORDINATES N 1000787.14 E 307015.68

ANGLE Vertical BEARING _____ CONTRACTOR APCo DRILL NO. _____

OVERBURDEN DEPTH 30.0 NO. PENT. TESTS _____ NO. U.S. SAMPLES 0

CASING SIZE NA LENGTH _____ CORE SIZE NA TOTAL S. REC. _____

WATER TABLE DEPTH * 26.5 ELEV. _____ TIME AFTER COMP 2 hours DATE TAKEN 02/03/92

TYPE GROUT _____ QUANTITY _____ MIX _____ DRILLING DATE START 02/03/92

DRILLER S. McDaniel RECORDER D.M. Frings APPROVED DMF DRILLING DATE COMP. 02/03/92

Graphic Log	Depth	Elev.	Material Description. Classification and Remarks	Standard Penetration Test			Sample No.	Field Ckg. %	Rec %	ROD
				From To	Blows	N				
	0	433.1	Surface of ground.							
	1		Very dark gray (N-3), sandy fly ash fill.							
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17									
	18									
	19									
	20	413.1	Bottom of fill.							
	21		Strong brown (7.5YR5/6), stiff, gravelly clay. 20.04 (413.1) sample.							
	22									
	23									
	24	409.1	Top of residuum.							

site E. C. Gaston Steam Plant

SURF. ELEV. _____

TOTAL DEPTH 30.0

Gage Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Pen. Test			Sample No.	Fluid Ctg. %	Rec. %	RCD
				From To	Stems	N				
	25		Red (2.5YR4/8), stiff, slightly silty clay.							
	26		25.0 (408.1) sample.							
	27									
	28									
	29									
30.0	30	403.1	30.0 (403.1) sample.							
	31		Bottom of hole.							
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									

DRILLING LOG

SITE E. C. Gaston Steam Plant SURF. ELEV. 436.7 TOTAL DEPTH 40.0

LOCATION Eastern portion of landfill COORDINATES N 1000485.15 E 307394.88

ANGLE Vertical BEARING NA CONTRACTOR APCo DRILL NO. _____

OVERBURDEN DEPTH 40.0 NO. PENT. TESTS _____ NO. U.D. SAMPLES 0

CASING SIZE NA LENGTH 0.0 CORE SIZE NA TOTAL S REC. NA

WATER TABLE DEPTH 27.5 ELEV. 409.2 TIME AFTER COMP 2 hours DATE TAKEN 02/04/92

TYPE GROUT _____ QUANTITY _____ MIX _____ DRILLING DATE START 02/04/92

DRILLER S. McDaniel RECORDER D.M. Frings APPROVED DMF DRILLING DATE COMP. 02/04/92

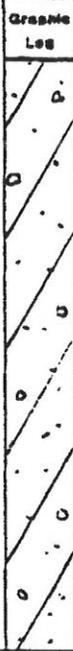
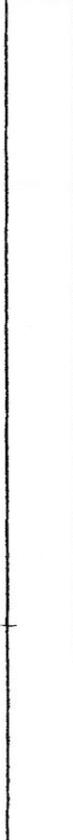
Graphic Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Penetration Test			Sample No.	Fluid Ctg. %	Rec %	RQD
				From To	Blows	N				
	0.0	436.7	Surface of ground.							
	1		Very dark gray (N-3), sandy fly ash fill.							
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	16.5	420.2	Bottom of fill							
	17		Reddish-yellow (7.5YR6/8) and red (2.5YR5/8) mottled, stiff, slightly sandy clay with scattered rounded gravel. 20.0 (416.7) sample.							
	18									
	19									
	20									
	21									
	22									
23										
24										

DRILLING LOG

SITE E. C. Gaston Steam Plant

SURF. ELEV. 436.7

TOTAL DEPTH 40.0

Graphic Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Pen. Test			Sample No.	Fluid Cnt. %	Res. %	ROD
				From To	Stems	N				
	25									
				25.0 () sample.						
	26		Reddish-yellow (7.5YR6/8) and red (2.5YR5/8) mottled, stiff, slightly sandy clay with scattered rounded gravel.							
	27									
	28									
	29									
	30			30.0 () sample.						
	31									
	32									
	33									
	34									
	35.0	35		Top of residuum. 35.0 () sample.						
		36		Brownish-yellow (10YR6/6), plastic clay.						
		37								
		38								
39										
40.0		40		40.0 () sample.						
	41		Bottom of hole.							
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49									
	50									
	51									
	52									
53										
54										
55										
56										

SITE E. C. Gaston Steam Plant

SURF. ELEV. 438.4

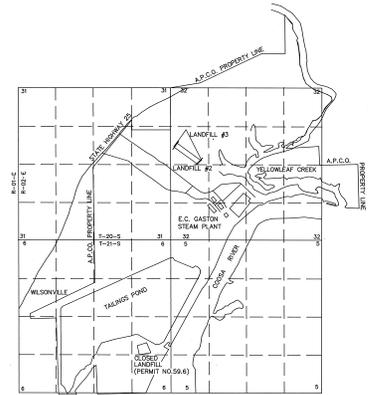
TOTAL DEPTH 45.0

Graphic Log	Depth	Elev.	Material Description, Classification and Remarks	Standard Pen. Test			Sample No.	Field Chg. %	Rec. %	ROD
				From To	Blows	N				
	25		Reddish-yellow (7.5YR6/8) and red (2.5YR5/8) mottled, stiff, slightly sandy clay with scattered rounded gravel. 25.0 (413.4) sample. 30.0 (408.4) sample.							
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34									
35.0	35	403.4	Top of residuum.							
	36		Brownish-yellow (10YR6/6), plastic clay. 35.0 (403.4) sample. 40.0 (398.4) sample. 45.0 (393.4) sample.							
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45									
45.0	45	393.4								
	46		Bottom of hole.							
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
56										

Attachment 3

ATTACHMENT 3
LANDFILL SURVEY

SHELBY COUNTY
SECTION 32
T-20-S, R-02-E



LOCATION DIAGRAM

Boundary Description
Gaston Steam Plant Process Landfill
Shelby County, Alabama

This proposed landfill is that certain plot of land situated in the NW 1/4 of Section 32, T-20-S, R-2-E, Shelby County, Alabama containing 9.7 acres more or less and more particularly described as follows:

Commence at the NW corner of Section 32, T-20-S, R-2-E, identified by a concrete monument and having state plane east zone coordinates of N=1,002,710.45 E=306,524.37; thence S 04°49'23" E for a distance of 1,950.13 feet to a point having coordinates of N=1,000,787.05 E=306,787.80. This will be known as the point of beginning. From the point of beginning go N 39°50'09" E for a distance of 708.81 feet to a point identified by a 4x4 concrete monument and having coordinates of N=1,001,311.41 E=307,242.02; thence S 23°42'23" E for a distance of 277.45 feet to a point identified by a 4x4 concrete monument and having coordinates of N=1,000,037.31 E=307,353.42; thence S 23°42'50" E for a distance of 822.71 feet to a point identified by a 4x4 concrete monument and having coordinates of N=1,000,303.87 E=307,683.85; thence S 30°34'57" W for a distance of 148.70 feet to a point identified by a 4x4 concrete monument and having coordinates of N=1,000,196.07 E=307,596.42; thence N 84°18'34" W for a distance of 497.75 feet to a point identified by a concrete monument and having coordinates of N=1,000,478.46 E=307,192.16; thence N 54°17'41" W for a distance of 248.93 feet to a point identified by a concrete monument and having coordinates of N=1,000,621.74 E=306,990.02; thence N 54°17'12" W for a distance of 248.93 feet to the point of beginning.

- NOTES:
1. Reference to Drawing D-364726
 2. Topography scan is before operation begins

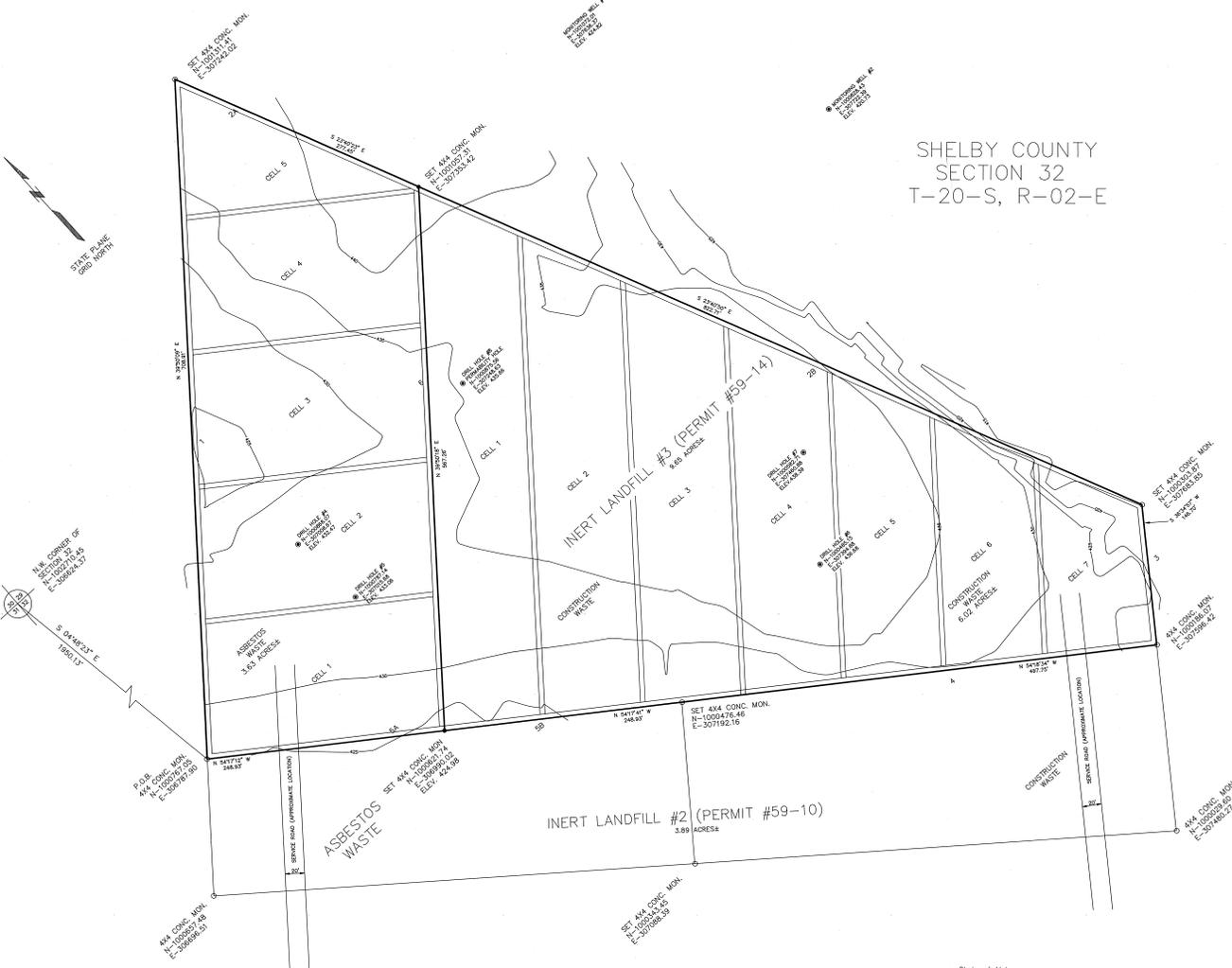
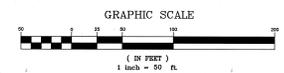
State of Alabama
I, the undersigned, Michael T. Hammitt, for Alabama Power Company as a Registered Professional Land Surveyor, hereby certify that this map was based upon a survey performed by employees of Alabama Power Company, and is a true and accurate depiction of the lands described hereon, and was produced, to the best of my knowledge, in compliance with the Minimum Technical Standards for the Practice of Land Surveying in the State of Alabama.

Alabama Power Company
By

Michael T. Hammitt
Michael T. Hammitt
Alabama Register No. 16161

LEGEND	
●	SET MONUMENT
○	FOUND MONUMENT
⊙	DRILL HOLE

PRODUCED BY: ALABAMA POWER COMPANY
POWER GENERATION TECHNICAL SERVICES - CIVIL



ALABAMA POWER COMPANY 600 NORTH 18th STREET BIRMINGHAM, ALABAMA	
JOB: GASTON STEAM PLANT DETAIL: INERT LANDFILLS #2 AND #3	
DRAWN: GPR	CHECKED: JPH
DATE: 2-18-93	DATE: 2-18-93
SCALE: 1" = 50'	B/M
SHEET 1 OF 5 SHEETS	SUPPERSEDES
D-371483	

REV. 4 02-18-93 CHANGED NAMES OF LANDFILLS	REV. 3 02-09-93 DELETED M.W. #3 ADDED MONITORING WELL #4	REV. 2 1-28-92 - TO SEPARATE PROPOSED LANDFILL	REV. 1 11-14-90 - ADDED NOTES PER CLIENTS REQUEST	GAS: 1485 02-18-93	DRAWN: GPR	CHECKED: JPH	DATE: 2-18-93	SCALE: 1" = 50'	B/M
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ATTACHMENT 4

ADEM LANDFILL PERMIT RENEWAL FEE RECEIPT

Grinder, Elizabeth

From: receipts@alabamainteractive.org
Sent: Thursday, April 30, 2020 1:53 PM
To: Grinder, Elizabeth
Subject: ADEM General Invoice payments - 20200430000014760

EXTERNAL MAIL: Caution Opening Links or Files

Your transaction is complete.
Please [PRINT](#) the receipt below for your records.

Receipt Confirmation Page

ADEM requires that when you pay online, you MUST print out the confirmation information and submit it as proof of payment with your permit application or any other correspondence requiring proof of payment.

Payment Summary	
Payment Item	Fee
Online Payment - 04/30/2020 13:52:50	\$8,150.00
Total Fee through Alabama.gov (more info [alabama.gov])	\$8,394.50

Receipt Confirmation Number: 20200430000014760

General Invoice Information

Choose the type of payment you are making: 5359-LAND- SOLID WASTE LANDFILL PERMIT

Description of Other Fees:

Additional Information/Fee Description: E.C. Gaston Steam Plant Permit 59-14 Solid Waste Landfill Permit Renewal Fee

Number on your ADEM invoice:

Date on your ADEM invoice:

Contact Information

Company/Facility or Individual Name: Alabama Power Company

Facility Permit Number (if applicable): 59-14

Company or Facility Phone: 205-257-4150

Contact Person: Elizabeth Grinder

Contact Phone: 205-257-4150

Contact email address: egrinder@southernco.com

Name of an ADEM Program Staff Member (if known): Devin Jenkins

This is a system generated message.
Please do not reply to this email.

Vendor No. 100000062680

Check No 11300066

Check Date 11/09/18

Invoice Date	Invoice Number	Reference	Gross Amount	Discount	Net Amount
11/06/18	CR9309916 3 Return check to P.K.Daly. 12N-0830. APC-CH for Elizabeth Grinder to deliver with paperwork. Plant Gaston Major Modification Fee		4,375.00		4,375.00
Totals			4,375.00	0.00	4,375.00

For questions, please contact Southern Accounts Payable at scsaphelp@southernco.com or call 205-257-2223.

CHECK FRAUD IS A FEDERAL OFFENSE. THIS CHECK IS PHOTOGRAPHICALLY AND CHEMICALLY PROTECTED

Alabama Power Company
600 N 18th St
Birmingham, AL 35203-2206

64-975
612

Check Date 11/09/18
Check Number 11300066



PAY Four Thousand Three Hundred Seventy-Five Dollars And Zero Cents*****

\$ 4,375.00

To the order of ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
1400 COLISEUM BLVD
MONTGOMERY, AL 36130-1463

WELLS FARGO Birmingham, AL

Authorized Signature

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK

11300066 061209756 2079900530243

LANDFILL REVIEW FORM

ALABAMA POWER E.C. GASTON STEAM PLANT INDUSTRIAL LANDFILL

SHELBY COUNTY

PERMIT # 59-14

PERMIT MODIFICATION & RENEWAL

	INITIALS	DATE/COMMENT
John Sturdivant, SWES	_____	_____
Complete application		_4/30/20__
Variiances requested		_4/30/20__
Waste screening procedures		_4/30/20__
Environmental justice screening (1mi./5mi.)		_8/6/20__
Financial Assurance updated (MSW only)		___N/A__
Draft Hydrogeologist Memo (Renewal) to C&ES		___N/A__
Final Hydrogeologist Memo (Renewal)		___N/A__
Site visit documented		_1/21/21_

Spec	Date	Document Title	Page
GW Monitoring	N/A		
Gas Monitoring	N/A		
Buffer Zone	N/A (Variance)		
Sed Ponds	N/A		
Disposal Area	4/30/20	Permit Application	Attachment 3
Facility Boundary	4/30/20	Permit Application	Attachment 3

Jessica Rayfield, C&ES _____

Comments: _____

Jared Kelly, Chief SWES _____

Scott Story, Chief SWB _____

FEE SHEET FOR SOLID WASTE PERMITS

ADEM No.: _____

Applicant: Alabama Power Company
 Location: 31972 Highway 25
Wilsonville, AL 36512
33.243364, -86.461526

Permit No.: 59-14 Date Application Received: 10/08/19

Permit Fees Required	Initial Issuance	Modification	Reissuance	Total
Municipal Solid Waste Landfill	\$83,880		\$18,635	
Minor Modification ¹		\$3,275		
Major Modification ²		\$32,615		
Construction/Demolition Landfill	\$7,145		\$2,700	
Minor Modification ¹		\$1,460		
Major Modification ²		\$2,915		
Industrial Landfill	\$12,670		\$4,075	
Minor Modification ¹		\$1,460		
Major Modification ²		\$4,375		\$4,375
Compost Facility	\$4,860		\$1,835	
Minor Modification ¹		\$1,225		
Major Modification ²		\$1,945		
Environmental Covenants				
Engineering Controls	\$6,425	\$1,610		
Registry Fee for Class 1 Controls	\$13,705	\$635		
Registry Fee for Class 2 Controls	\$9,420	\$635		
Registry Fee for Class 3 Controls	\$5,245	\$635		

Additional Fees				
Geological Review:	\$4,865	\$3,275	\$3,275	
Greenfield Site:	\$1,610			
Public Hearing:	\$8,450	\$8,450	\$8,450	
Name Change/Transfer:		\$800		
Variance Request	\$1,460	\$1,460	\$1,460	
Solid Waste Disposal Notification	\$215	\$215	\$215	

¹ These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(2)

² These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(1)

Total Fee Due:	\$4,375
Amount Submitted with Application:	\$4,375
Amount Received:	\$4,375
Amount to be Billed:	
Amount Received:	
Date Received:	
Amount to be Refunded:	

Fee Schedule Prepared by: _____ Date: _____

Fee Schedule Reviewed by: _____ Date: _____

FEE SHEET FOR SOLID WASTE PERMITS

ADEM No.: _____

Applicant: Alabama Power Company

Location: 31972 Highway 25

Wilsonville, Alabama 36512

32.24960, -86.46244

Permit No.: 59-14

Date Application Received: 04/30/20

Permit Fees Required	Initial Issuance	Modification	Reissuance	Total
Municipal Solid Waste Landfill	\$83,880		\$37,270	
Minor Modification ¹		\$3,275		
Major Modification ²		\$32,615		
Construction/Demolition Landfill	\$7,145		\$5,400	
Minor Modification ¹		\$1,460		
Major Modification ²		\$2,915		
Industrial Landfill	\$12,670		\$8,150	\$8,150
Minor Modification ¹		\$1,460		
Major Modification ²		\$4,375		
Compost Facility	\$4,860		\$3,670	
Minor Modification ¹		\$1,225		
Major Modification ²		\$1,945		
Environmental Covenants				
Engineering Controls	\$6,425	\$1,610		
Registry Fee for Class 1 Controls	\$13,705	\$635		
Registry Fee for Class 2 Controls	\$9,420	\$635		
Registry Fee for Class 3 Controls	\$5,245	\$635		

Additional Fees				
Geological Review:	\$4,865	\$3,275	\$3,275	
Greenfield Site:	\$1,610			
Public Hearing:	\$8,450	\$8,450	\$8,450	
Name Change/Transfer:		\$800		
Variance Request	\$1,460	\$1,460	\$1,460	
Solid Waste Disposal Notification	\$215	\$215	\$215	

¹ These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(2)

² These are modifications as included in ADEM Admin. Code Rule 335-13-5-.06(1)

Total Fee Due:	\$8,150
Amount Submitted with Application:	\$8,150
Amount Received:	\$8,150
Amount to be Billed:	
Amount Received:	
Date Received:	
Amount to be Refunded:	

Fee Schedule Prepared by: _____ Date: _____

Fee Schedule Reviewed by: _____ Date: _____